

EXECUTIVE SUMMARY

ENERGY FUELS NUCLEAR

Repete Mine
Section 8, Township 39 South, Range 25 East
San Juan County, Utah
ACT/037/038

LOCATION:

Energy Fuels Nuclear is operating a reactivated, underground, random room and pillar uranium mine located in Section 8, Township 39 South, Range 25 East, San Juan County, Utah. Consult the enclosed map.

The mine consists of three small surface sites each with a portal and waste-rock dump that will interconnect underground. The mine area was previously disturbed and the mining operations have left roads and sites that were not reclaimed. Energy Fuels Nuclear plans to utilize some of these facilities and they plan to construct one additional access road.

SOILS AND GEOLOGY:

The mine sites are developed on hilly topography with shallow rocky soils in the undisturbed areas. Soils were not stockpiled prior to the commencement of mining which occurred probably in the 1950's. Energy Fuels Nuclear will attempt to establish vegetation of the spoil material and disturbed areas without spreading topsoil.

HYDROLOGY:

There are no perennial streams immediately adjacent to the mine site. Poorly defined ephemeral drainages drain the mine area. Due to the disturbed soil condition, sparse vegetation, and steep slopes erosion potential is high.

Artesian groundwater occurs in the area. However, the mine is located above the aquifer. The old workings do not hold captured groundwater.

ECOLOGY:

Vegetation is relatively sparse and consists mainly of cheatgrass, galletagrass, Indian ricegrass, shadscale, snakeweed, cliffrose, and black sagebrush. Scattered pinyon and juniper can also be found in the area.

The mine area has minimal value for wildlife habitat.

STRUCTURES AND FACILITIES:

No permanent structures exist at the mine sites other than roads, waste-rock piles, and three portals.

MINING AND RECLAMATION:

Energy Fuels Nuclear has committed to the procedures listed below.

During Operations:

1. Access will be via upgraded existing roads and one new road.
2. Only pre-existing waste dumps will be utilized.
3. Mining will be conducted in a safe, orderly and workmanlike manner.

After Operations

1. All disturbed areas will be recontoured to the surrounding terrain with drainage controls to prevent erosion and will not be greater than the angle of repose.
2. The natural drainage channel will be re-established utilizing grading procedures along with drainage control techniques such as check dams and water bars.
3. The seedbed will be prepared by removing rock obstacles, spreading available topsoil and mulching.
4. Disturbed areas will be revegetated with a grass-shrub seed mixture.
5. Supervisory maintenance procedures will be carried out where necessary and practical to ensure revegetation.
6. Revegetation protection measures will be enacted to prevent grazing disturbance of affected areas.
7. Underground entries will be sealed to prevent unauthorized or accidental entry.

IMPACTS:

The majority of the operation is pre-existing. The reclamation plan will eliminate safety hazards and reduce visual and environmental impacts.

SURETY ESTIMATE:

Surety for this operation is estimated to be \$10,654.00 which includes 5 percent inflation for a period of 6 years, the expected life of the mine. The reclamation surety includes the following work:

1. Sealing of 3 inclines.
2. Removal of structures and equipment.
3. Removal of trash and debris.
4. Regrading of spoil piles.
5. Scarification and seeding of disturbed areas.
6. Supervisory labor.
7. Removal of hazardous substances.
8. Reseeding and monitoring if necessary.
9. Inflation.

A copy of the reclamation surety estimate is enclosed for reference.

APPLICATION HISTORY:

June 1, 1978	Began mine reactivation.
June 19, 1978	Energy Fuels Nuclear's first contact with the Division.
December 8, 1978	Mining and Reclamation Plan received.
January 3, 1979	Division inspection.
March 21, 1979	Surety Estimated.